CLAIMS

1. - Process for assembling multilayer tapes, which comprises the fusion bonding of the tapes by means of electromagnetic radiation, the tapes comprising at least one plastic layer, which is oriented in at least one direction and is transparent to this radiation, and at least one layer that partially absorbs the energy transported by this radiation, characterized in that one face of at least one tape of the assembly is fusion-bonded to a plastic preformed support.

2. - Process according to the preceding claim, characterized in that at least two tapes are fusion-bonded.

3. - Process according to either of the preceding claims, characterized in that at least one layer of the plastic of the tapes is oriented in a single direction.

4. - Process according to any one of the preceding claims, characterized in that the electromagnetic radiation has a wavelength ranging from 700 to 1200 nm.

5. - Process according to any one of the preceding claims, characterized in that the electromagnetic radiation is laser radiation.

6. - Process according to any one of the preceding claims, characterized in that the plastic preformed support is an unoriented plastic tubular support.

7. - Process according to any one of the preceding claims, characterized in that the material responsible for absorbing the electromagnetic radiation is carbon black.

8. - Plastic composite tube comprising an unoriented plastic core in which at least two adjacent thicknesses of multilayer tapes are fusion-bonded, the said tapes being wound and bonded together, characterized in that at least one layer of each tape is formed from a plastic transparent to the electromagnetic radiation and oriented in at least one direction and in that at least one other layer of each tape comprises a material that absorbs this electromagnetic radiation.

9. - Tube according to the preceding claim, characterized in that the layers comprising absorbent material are also oriented.

10. - Tube according to the preceding claim, characterized in that the tapes are formed from a layer of oriented material, transparent to the electromagnetic radiation at wavelengths ranging from 700 to 1200 nm, placed between two thinner layers comprising the same plastic oriented in the same direction as the transparent layer and also including a material that absorbs this radiation.